

Electricity and Its Appliances Are First Aids to Up-to-Date Homemakers

N. Y. FIRM TO ELECTRIFY FIRST SO. AMERICAN R. R.

A contract amounting to nearly \$2,000,000 has been secured by a well-

known company with headquarters in New York for the electrification of the first main line railway in South America. The electrification is over the line of the Paulista Railway Company, a distance of 45 kilometers or about 28 miles, but since the road is of double track construction, the total mileage amounts to 78 miles.

This project anticipates further extension amounting to 100 additional miles of route which may eventually bring the total electrification up to 138 miles, extending from Jundiahy and San Carlos. Power for the operation of the line will be supplied by the Sao Paulo Light and Power Company.

THE A-B-C Super Electric WASHING MACHINE WEBSTER

AMERICAN HOMES are the cleanest homes in the WORLD

And the OHIO TUEC Electric Vacuum Cleaners have helped thousands of women to keep their homes spotless. It will clean your home thoroughly, in less time, and yet is so light that the frailest woman or child can operate it.

Cleans without beating or pounding.

On Sale At Most Electrical Stores

J. WATSON TERHUNE
1410 H Street N. W.

SUCTION CLEANERS SPELL EFFICIENCY

Do More Than Save Labor—Effectively Rout That Old Enemy, Dirt.

Efficiency is one of the most convincing selling arguments of suction cleaners. Efficiency, even more than the arguments that they save labor, which they do.

The housewives are demanding something more than labor-saving. The device which is not thorough, which does not show an actual return on the investment in the shape of saving money, is not popular.

The efficiency of suction cleaners lies in their ability to do a good job wherever they meet the enemy, "dirt." With the latest attachments there is no corner or cranny where they will not go, nothing they will not pick up.

The mud that comes in on the rugs and carpets underfoot, the fine dust that penetrates to the vitals of the weaver, the bits of broken glass, the splinters, the pins that baby usually spies first—all these are taken up by the suction cleaner.

One of the most important savings of the suction cleaner is in the health of the inhabitants of the house. With dust entirely removed there is perceptible improvement in general physical condition, and as a result added security from all major diseases.

There is also the saving in self-respect which makes itself apparent not only in the housewife, but in all members of her family. The family which lives in a thoroughly cleaned house, free from dust and dirt and grime which cannot be removed except by suction cleaners, unconsciously takes on dignity.

If the health of the women who do the work is given consideration as it should be the returns through saving are incalculable. Women stay young, have more time to give to their children, are more vigorous and alive in every way when freed from the back-breaking tyranny of broom and duster.

Finally, there is the saving to the household in the matter of water and wear on all furniture and fittings. With dust eliminated from the house, everything from dining room furniture to picture molding lasts longer. Wall paper particularly enjoys longevity in a house equipped with a suction cleaner.

Because of the ease of adjustment, the ease of oiling, the low cost of operating power, their understandable mechanism and countless other advantages, suction cleaners enjoy the favor of housewives.

ELECTRIC water heater, having automatic control, made in Cleveland.



FIND "ELECTROCUTION" MAKES PIPES LEAK NEW ELECTRIC HEATER HAS AUTOMATIC CONTROL

Statistics collected by the division of mineral technology of the United States museum are claimed to have led to the startling conclusion that gas and waterpipes which leak within five to ten years after their installation have been "electrocuted" by stray currents of electricity.

Scientists call the chemical change which takes place in the pipes under the action of these currents "electrolysis." Examination of pipes which were found to be leaking although still apparently new disclosed many small perforations.

The fact that pipes so "diseased" were always found in the vicinity of electric street railway systems first led investigators to examine these circumstances with the resultant conclusion that the heavy currents in trolleys and third rails was declared responsible for the damage, the return current in the rails partly escaping through the moist ground, setting up measurable currents in the pipes.

This electrolysis of pipes may be effectively checked, it was found, merely by a different method of insulation than that commonly employed. The life of pipes in the neighborhood of electric street car systems can be lengthened from twenty-five to fifty years by the use of carefully insulated negative feeders as compared with feeders not insulated at all, according to the chief of the division.

HOW TO USE RADIUM PAINT IN GUEST ROOM

The guest-room should have the ball on the end of the pull-chain painted with radium paint so it will advertise its presence to the guest who gets up in the night to close the window and then cannot find his or her way back to bed. Other thoughtful hosts see that the switch button is so treated to save embarrassment and annoyance to the guest of pawing around in the dark in search of the light.

MAKE ELECTRIC FURNACE GIVE TERRIFIC HEAT

Electric furnaces now in use have reached a temperature of 3,500 degrees centigrade, but recent experiments conducted in the research laboratory of one of the great manufacturing plants have resulted in the development of a furnace which gives a temperature of 4,500 degrees centigrade, which is sufficient to volatilize diamonds, and is but 500 degrees less hot than the temperature of the sun.

PAPERING AFFECTS BILLS FOR LIGHT

"Reflection" From Walls Has Much to Do With Cost of Illumination.

When you are figuring out some way to cut down expenses next month take a look at your wall paper. It may have had more to do with that big bill for electricity than the wife's new flat iron or cooker.

Upon the color and design of wall paper or wall paint or stain depends to a large extent the amount of light reflected, and the amount of reflected light in the house has a good deal to do with the light bills.

In that brown library, for instance, you may never have noticed before that it is necessary to turn on six lights before illumination is sufficient, whereas in the sewing room with the pink paper one or two lights are sufficient.

The reason is that the brown paper gives back in reflected light only about 13 per cent, whereas the pink paper gives back at least 36. You may be very partial to the brown library, but it undoubtedly has a good deal to do with the light bills.

When spring papering time comes it may be well to consider the following facts about light reflection and colors as they have been tabulated by scientists:

Color of wall surface.	Percent reflected.
White paper.....	70
Chrome yellow.....	62
Orange paper.....	50
Plain deal (clean).....	45
Yellow paper.....	40
Yellow painted wall (clean).....	40
Light pink paper.....	36
Plain deal (dirty).....	30
Yellow painted wall (dirty).....	20
Emerald green paper.....	18
Dark brown paper.....	13
Vermilion paper.....	12
Blue green paper.....	12
Cobalt blue paper.....	12
Deep chocolate paper.....	4

A very great deal of the useful illumination in a room is the result of reflected light. Only when we are reading or doing fine work which requires exactness is it necessary to have direct light. In the totally indirect lighting systems, no direct rays are visible, while in the semi-indirect systems—as when alabaster or dense glass bowls are used—only a small percentage of the lighting is by direct rays.

ELECTRIC WRENCH AIDS WORK AROUND GARAGES

An electric wrench has been developed for speeding up the work around automobile garages and shops where much of this work is done. This appliance may also be used as a port-

able drill, screw driver, buffer, or grinder, and costs from 2 to 5 cents an hour to operate.

A feature of the device is the special clutch with an adjustable pressure of ten to sixty pounds, by means of which the nut or bolt is tightened to the desired pressure, after which the power is automatically shut off.



Keep Cool

With a G. E. or Westinghouse

Electric Fan

Come in and look over our stock ALL SIZES, ALL TYPES

Zarin Bros.

The Store That Saves You Money.
M. 4965. 717 12th St.

RESIDENCE WIRING

DONE BY Expert Workmen

NO DIRT—NO MARKS NO ANNOYANCE

D. GORDON WASHBURN

Electrical Contractor,
Main 5944. 801 12th St. N. W.

Wire Your Home

There is one thing you can secure that will benefit the entire family. That's electricity in your home.

Let's Talk It Over.

Agents for G. E. and Westinghouse Electric Fans.

Joseph S. Repetti

Electrical Contractor and Dealer.
149 B St. S. E.
Lincoln 235.



Will Not Let a Particle of Dirt Escape

It can keep your home bright and clean in many ways. It will not only make the dirt disappear from all those little hard-to-clean corners, but will also bring back the color to worn and soiled rugs, draperies, etc. Sold on easy terms.

PREMIER SERVICE CO.

704 10th St. N. W. Main 5357

"Do It Electrically"



Electrical Household Summer Needs

If you knew the comforts of Electrical Table Appliances, there'd be an end to the old way in your home. It's the ideal hot-weather method of preparing summer meals—right on the table, cool, convenient, quick!

Grills
\$15.00 UP

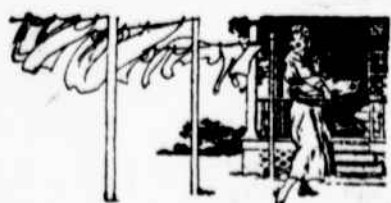
Toasters
\$7.50 UP

Our complete assortment of Electric PERCOLATORS, TOASTERS, GRILLS and SAMOVARS affords every facility for selecting correctly.

Our demonstrators demonstrate, too—gladly, and whenever asked to do so.

Samovars
\$14.50 UP

Percolators
\$15.50 UP



The woman who Washes and Irons ELECTRICALLY enjoys the maximum of rest and recreation and the satisfaction of a well-operated home.

Call and See a Demonstration of the THOR Washing and Ironing Machines at our store.



An Electric Fan in your household will make work and play truly pleasant—your sleep will be restful—your will awake refreshed.

Order your Fan tomorrow.



HOOVER

IT BEATS AS IT SWEEPS AS IT CLEANS

Spring days, open windows, dusty streets, dusty houses. The need for a Hoover becomes more than ever imperative at this time. You pay just a little each month for a short while—a small deposit brings you a Hoover any day you elect.



Gifts for the June Bride

Make her life happy and her home surroundings pleasant. Buy her electric gifts, which will not detract from her beauty and health.

Ohio Tuec Vacuum Cleaner

Is a cleaner that allows no dust or litter to escape. No better gift could be given to the June Bride. Sold on convenient terms.

Other Electrical Gifts Which She Would Appreciate:

Chafing Dish Percolator Iron Grills and many others

Ask for Estimates on Wiring, Electrical Repair Work and Fixtures of All Kinds.

ZARIN BROS.

The Store That Saves You Money

717 12th St. N. W. Main 4965

Everything for the Motorist

NATIONAL ELECTRICAL SUPPLY COMPANY

1328-30 NEW YORK AVE. MAIN 6800

The Store For Things Electrical

"In a workmanlike manner"

These words appear in most specifications for electrical work as well as for bricklaying, carpentry, painting, etc. If the spirit as well as the letter of this injunction is followed, a thoroughly pleasing as well as substantial job results.

To a responsible electrical contractor the words "In a workmanlike manner" mean not only mechanically and electrically correct—but good to look at as well.

Good workmanship is the result of long experience, careful supervision and confidence created by knowledge.

Your electrical work will be done "In a workmanlike manner" if done by one of the undersigned contractors:

Capital Electric Co.	1525 14th St.,	Franklin 4582
F. L. Clarke	1242 Wisconsin Ave.,	West 2419
Davis Electric Co.	1009 H St.,	Franklin 5040
Howard P. Foley Co.	806 12th St.,	Main 1130-1
E. C. Gramm	1408 Eye St.,	Franklin 5016
Home Electric Shop	2203 14th St.,	North 4226
	(J. D. Campbell, Mgr.)	
Arthur Lowe	2030 I St. N. W.	West 1242
Modern Electric Shop	1411 U St.,	North 2153
Geo. G. Rabbitt	805 9th St.,	Main 280
	(Successor to John R. Galloway)	
H. I. Scharf Elec. Co.	711 13th St.,	Main 1286
J. E. Taylor & Co.	1324 Eye St.,	Main 7103

"Buy Your Electrical Goods at an Electrical Store"